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(54) Title: PYRROLO[2,3-D]PYRIMIDINE NUCLEOSIDE ANALOGS

(57) Abstract: Compositions and methods for pyrrolo[2,3-d]pyrimidine nucleoside analogs having substituents at the C4' and C5' positions of the ribofuranose moiety are presented. Contemplated compositions exhibit, among other things, anti-cancer and immunomodulating effects at reduced cytotoxicity.

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INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07D 487/02; C07H 19/22; A61K 31/7064, 31/519

US CL : 514/43, 258; 536/27.2; 544/280

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 514/43, 258; 536/27.2; 544/280

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
CAS ONLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HINSHAW, B.C. et al. Pyrrolopyrimidine Nucleosides. V. A Study on the Relative Chemical Reactivity of the 5-Cyano Group of the Nucleoside Antibiotic Toyocomycin and Desaminotoyocamycin. The Synthesis of Analogs of Sangivamycin. The Journal of Organic Chemistry. 1970, Vol. 35, No. 1, pages 236-241, especially compound 10 in page 238.	1-3, 41-44
X	US 4,140,851 A (TOWNSEND) 20 February 1979 (20.02.1979), col. 1, first formula.	1-3, 41-44
X	WANG, G. et al. Synthesis and Cytokine Modulation Properties of Pyrrolo[2,3-d]-4-pyrimidone Nucleosides. J. Med. Chem. 2000, Vol. 43, No. 13, pages 2566-2574, especially see compound 16c in page 2568.	1-47

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:	
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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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